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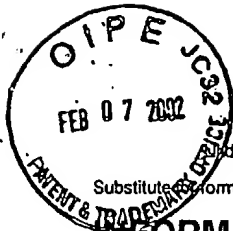
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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Application Number : 09/868,683

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: 2121

Examiner Name: JP Arc

Attorney Docket Number: 05222.00159

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### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
H		US-4,622,013	11/11/1986	Cherchio	
H		US- 4,874,784	10/17/1989	Clancey	
H		US- 4,981,766	01/02/1990	Derr, et al.	
H		US- 4,831,950	06/05/1990	Isla, et al.	
H		US- 4,964,077	10/16/1990	Eisen, et al.	
H		US- 4,977,529	12/11/1990	Gregg, et al.	
H		US- 5,002,491	03/28/1991	Abrahamson, et al.	
H		US- 5,170,464	12/08/1992	Hayes, et al.	
H		US- 5,189,402	02/23/1993	Naimark, et al.	
H		US- 5,208,745	05/04/1993	Quentin, et al.	
H		US- 5,208,898	05/04/1993	Funabashi, et al.	
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H		US- 5,259,766	11/09/1993	Sack et al.	
H		US- 5,267,865	12/07/1993	Lee, et al.	
H		US- 5,310,349	05/10/1994	Daniels, et al.	
H		US- 5,311,422	05/10/1994	Loftin, et al.	
H		US- 5,317,688	05/31/1994	Watson, et al.	
H		US- 5,326,270	07/05/1994	Ostby, et al.	
H		US- 5,359,701	10/25/1994	Chiang, et al.	
H		US- 5,372,507	12/13/1994	Goleh	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
		EP 0 689 132 A2	12/27/95	Laffra	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 798 655 A2	10/01/97	Jervis, et al.	
		WO 00/04478	01/27/00	Jonsson	
		WO 97/44766	11/27/97	Cook	
		WO 98/03953	01/29/98	Simmons	
		WO 98/25251	06/11/98	Ho	
		WO 98/32109	07/23/98	De Lange	

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Application Number : 09/868,682

**Filing Date: 02/08/1999**

First Named Inventor: Nichols

Group Art Unit: ~~n/a~~ 2/2/1

Examiner Name: n/a  
Attorney Docket Number: 05222.00159

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A		US-5,395,243	03/07/1995	Lutbin, et al.	
A		US- 5,441,415	08/15/1995	Lee, et al.	
H		US- 5,491,743	02/13/1996	Shilo, et al.	
H		US- 5,533,903	07/09/1996	Kennedy	
H		US- 5,535,422	07/09/1996	Chang, et al.	
M		US- 5,537,141	07/16/1996	Harper, et al.	
H		US- 5,539,869	07/23/1996	Spoto, et al.	
H		US- 5,566,291	10/15/1996	Boulton, et al.	
A		US- 5,576,844	11/19/1996	Anderson, et al.	
H		US- 5,577,186	11/19/1996	Mann II, et al.	
H		US- 5,597,312	01/28/1997	Bloom, et al.	
A		US- 5,616,033	04/01/1997	Kerwin	
A		US- 5,644,686	07/01/1997	Hekmatpour	
A		US- 5,644,727	07/01/1997	Atkins	
A		US- 5,673,369	09/30/1997	Kim	
M		US- 5,690,496	11/25/1997	Kennedy	
H		US- 5,696,885	12/09/1997	Hekmatpour	
H		US- 5,701,400	12/23/1997	Amado	
H		US- 5,720,007	02/17/1998	Hekmatpour	
A		US- 5,727,161	03/10/1998	Purcell, Jr.	

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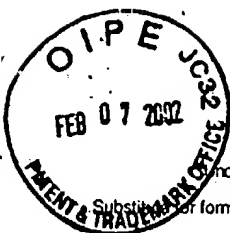
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Sheet 3 of 14

Application Number : 09/868,682 <sup>3</sup>

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: 276

Examiner Name: [illegible]

Attorney Docket Number: 05222.00159

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		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		"ACM-Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59258/144	
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		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
		"DDD--A Free Graphical-Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
		"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html	
		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
		"Developing a Design-System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46; Dec. 1997	
		"CAPTOR-a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

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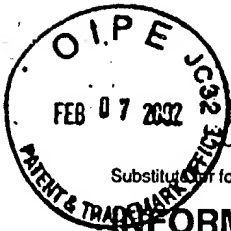
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 <sup>13</sup>

Filing Date : 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 95222-0009

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		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at <a href="http://www.calsci.com/Applications.html">www.calsci.com/Applications.html</a>	
		"KBLPS Overview" at <a href="http://www.cgl.com/CGIWEB/KBLPS/overindex4.html">www.cgl.com/CGIWEB/KBLPS/overindex4.html</a>	
		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety, Vol. 63, No. 10, pp 144-145	
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/rc157.html">http://www.centurionsys.com/rc157.html</a> , Aug. 1997	
		"Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html</a>	
		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

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Application Number : 09/868,688 3

**Filing Date: 02/08/1999**

**First Named Inventor: Nichols**

Group Art Unit: ~~n/a~~

Examiner Name: n/a  
Attorney Docket Number: 05228.00159

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		Number - Kind Code <sup>2</sup> (if known)			
K		US-5,727,950	03/17/1998	Cook, et al.	
H		US- 5,745,652	04/28/1998	Bigus	
A		US- 5,772,446	06/30/1998	Rosen	
H		US- 5,779,468	07/14/1998	Ho, et al.	
H		US- 5,788,508	08/04/1998	Lee, et al.	
A		US- 5,791,907	08/11/1998	Ramshaw, et al.	
A		US- 5,799,151	08/25/1998	Hoffer	
A		US- 5,799,292	08/25/1998	Hekmatpour	
A		US- 5,806,056	09/08/1998	Hekmatpour	
H		US- 5,810,747	09/22/1998	Brudney, et al.	
H		US- 5,822,745	10/13/1998	Hekmatpour	
H		US- 5,823,781	10/20/1998	Hitchcock, et al.	
H		US- 5,823,788	10/20/1998	Lemelson, et al.	
H		US- 5,835,683	11/10/1998	Corella, et al.	
H		US- 5,868,575	02/09/1999	Kuczewski	
H		US- 5,870,768	02/09/1999	Hekmatpour	
H		US- 5,875,437	02/23/1999	Atkins	
H		US- 5,889,845	03/30/1999	Staples, et al.	
H		US- 5,893,123	04/06/1999	Tuinenga	
A		US- 5,911,581	06/15/1999	Knight Jeremy, et al.	

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3. Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

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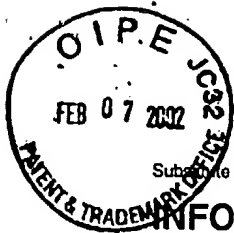
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 **3**

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"Artificial Intelligence and Mathematics Education" at <a href="http://www.rand.org/hot/mcarthur/Papers/aied.html">http://www.rand.org/hot/mcarthur/Papers/aied.html</a>	
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html">http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html</a>	
		"WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html">http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html</a>	
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		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94	
		"Microworlds and Simuworlids: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
		"What are Intelligent Coaching Systems and Why are they (In)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 3

**Filing Date: 02/08/1999**

First Named Inventor: Nichols

Group Art Unit: 242

Examiner Name: Na  
Attorney Docket Number: 05222.00159

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Sheet 7 of 14

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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cito No.¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code² (if known)			
H		US-5,974,446	10/26/1999	Sonnenreich, et al.	
H		US- 5,987,443	11/16/1999	Nichols, et al.	
H		US- 6,003,021	12/14/1999	Zadik, et al.	
H		US- 6,015,348	01/8/2000	Lambright, et al.	
H		US- 6,016,486	01/18/2000	Nichols	
H		US- 6,018,730	01/25/2000	Nichols, et al.	
H		US- 6,018,731	01/25/2000	Bertrand, et al.	
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H		US- 6,023,691	02/08/2000	Bertrand et al.	
H		US- 6,023,692	02/08/2000	Nichols	
H		US- 6,026,386	02/15/2000	Lannert, et al.	
H		US- 6,029,156	02/22/2000	Lannert, et al.	
H		US- 6,029,158	02/22/2000	Bertrand, et al.	
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H		US- 6,067,538	05/23/2000	Zorba, et al.	
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H		US- 6,085,184	07/04/2000	Bertrand, et al.	

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Examiner Signature		Date Considered	8/2/14
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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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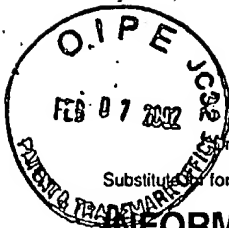
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 <sup>3</sup>

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a 2121

Examiner Name: n/a

Attorney Docket Number: 10522200159

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		"A-Goal-Centered-Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
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		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1776-83, Dec. 1995	
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		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
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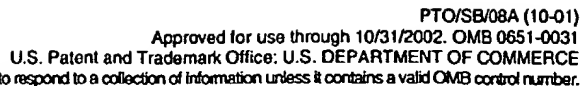
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Application Number : 09/868,682 3

Filing Dat : 02/08/1999  
First Named Inventor: Nichols  
Group Art Unit: ~~wa~~ 2126  
Examiner Name: ~~wa~~ J.P. AIRC  
Attorney Docket Number: 05222.00159

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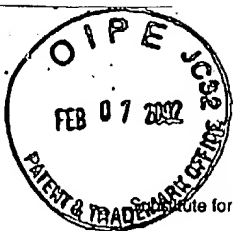
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Sheet 10 of 14

Application Number : 09/868,682 <sup>13</sup>

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: 713

Examiner Name: N/A

Attorney Docket Number: 05222-00159

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		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
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		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
		"Intelligent Tutoring Systems: An Overview" at <a href="http://www.intellectbooks.com/authors/lawler/its.htm">http://www.intellectbooks.com/authors/lawler/its.htm</a>	

Examiner Signature		Date Considered	<u>8/2/02</u>
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 <sup>3</sup>

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: *212*

Examiner Name: *W. H. W.*

Attorney Docket Number: 06222 00159

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		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
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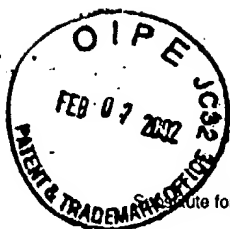
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 <sup>3</sup>

Filing Date : 02/08/1999

First Named Inventor: Nichols

Group Art Unit: 77A 2136

Examiner Name: 77A 2136

Attorney Docket Number: 05222.00159

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		"Engines for Education". URL: <a href="http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html">http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html</a> ; viewed Feb. 15, 1999.	
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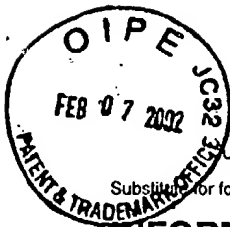
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682 <sup>3</sup>

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: ~~n/a~~ 2124

Examiner Name: ~~n/a~~ J. H. H.

Attorney Docket Number: 05222.00159

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Sheet 13 of 14

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		"TurboTax Deluxe Product Information" at <a href="http://www.intuit.com/turbotax/prodinfo/ttdlx.html">http://www.intuit.com/turbotax/prodinfo/ttdlx.html</a>	
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		"Template Software Workflow Simulator, Chapter 8, June 1998	
		"Goal-Based Scenarios", Technical Report # 36; Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

Examiner Signature		Date Considered	8/2/98
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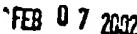
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Attorney Docket Number: 05222.00159

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